

09/27/96

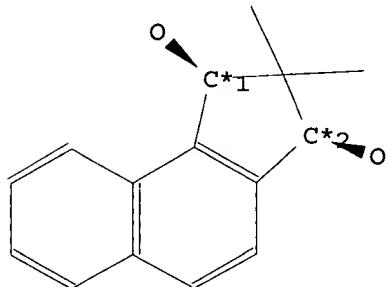
08/672128

Page 1

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L21 ANSWER 1 OF 6 COPYRIGHT 1996 Beilstein

Beilstein Reg. No. (BRN) : 5266540 Beilstein
 Molecular Formula (MF) : C15 H16 O2
 Autonom Name (AUN) : 2,2-dimethyl-2,3-dihydro-1H-cyclopenta<a>naphthalene-1,3-diol
 Beilstein Reference (SO) : 6-06
 General Comments (NTE) : Stereo compound; racemate
 CAS Reg. No. (RN) : 81278-62-8; 81278-63-9
 81278-62-8
 Beilstein Pref. RN (BPR) : 81278-62-8
 Rltd. Stereoisomers (RSI) : 5266538; 5266539
 Formula Weight (FW) : 228.29
 Lawson Number (LN) : 6142



Atom/Bond Notes:

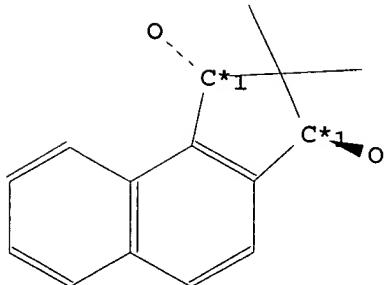
1. CIP Descriptor: R
2. CIP Descriptor: S

Fragment Notes:

Additionally represents mirror image

L21 ANSWER 2 OF 6 COPYRIGHT 1996 Beilstein

Beilstein Reg. No. (BRN) : 5266539 Beilstein
 Molecular Formula (MF) : C15 H16 O2
 Autonom Name (AUN) : 2,2-dimethyl-2,3-dihydro-1H-cyclopenta<a>naphthalene-1,3-diol
 Beilstein Reference (SO) : 6-06
 General Comments (NTE) : Stereo compound; racemate
 CAS Reg. No. (RN) : 81278-62-8; 81278-63-9
 81278-63-9
 Beilstein Pref. RN (BPR) : 81278-63-9
 Rltd. Stereoisomers (RSI) : 5266538; 5266540
 Formula Weight (FW) : 228.29
 Lawson Number (LN) : 6142



Atom/Bond Notes:

1. CIP Descriptor: S

Fragment Notes:

Additionally represents mirror image

L21 ANSWER 3 OF 6 COPYRIGHT 1996 Beilstein

Beilstein Reg. No. (BRN): 5266538 Beilstein

Molecular Formula (MF) : C15 H16 O2

Autonom Name (AUN): 2,2-dimethyl-2,3-dihydro-1H-cyclopenta<a>naphthalene-1,3-diol

Beilstein Reference (SO) : 6-06

General Comments (NTE): Referenced by other compounds

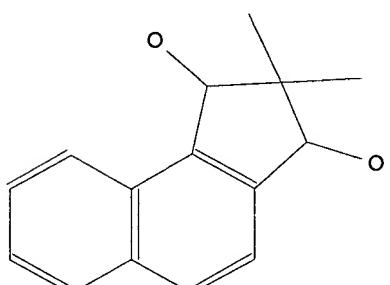
CAS Reg. No. (RN): 81278-62-8; 81278-63-9

BLtd Stereoisomers (RST): 5266539: 5266540

Formula Weight (FW): 228.29

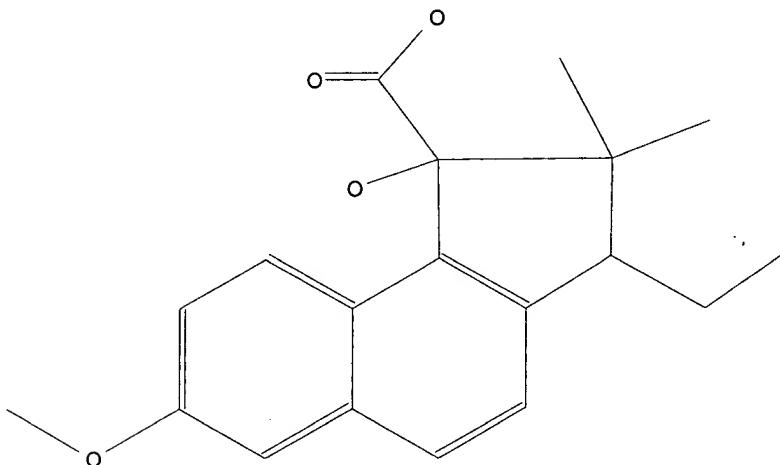
Lawson Number (LN): 6142

Lawson Number (L.N.) 3112



L21 ANSWER 4 OF 6 COPYRIGHT 1996 Beilstein

Beilstein Reg. No. (BRN) : 3104352 Beilstein
 Molecular Formula (MF) : C19 H22 O4
 Synonym (SY) : 6-Methoxy-1'-aethyl-2',2'-dimethyl-3'-hydroxy-
 3'-carboxy-cyclopenteno<4',5'-1,2>naphthalin
 Autonom Name (AUN) : 3-ethyl-1-hydroxy-7-methoxy-2,2-dimethyl-2,3-
 dihydro-1H-cyclopenta<a>naphthalene-1-
 carboxylic acid
 Beilstein Reference (SO) : 5-10
 CAS Reg. No. (RN) : 21442-41-1
 Beilstein Pref. RN (BPR) : 21442-41-1
 Formula Weight (FW) : 314.38
 Lawson Number (LN) : 12183; 289



Preparation:

PRE

Start: BRN=3098189 C19H22O2

Detail: (i) SeO_2 , Ac_2O , (ii) aq. NaOH

Reference(s) :

1. Lematre,J.; Horeau,A., Bull.Soc.Chim.Fr., <1968>, 4953-4958, LA: FR. CODEN: BSCEFA

Note(s) :

2. Multistep reaction

L21 ANSWER 5 OF 6 COPYRIGHT 1996 Beilstein

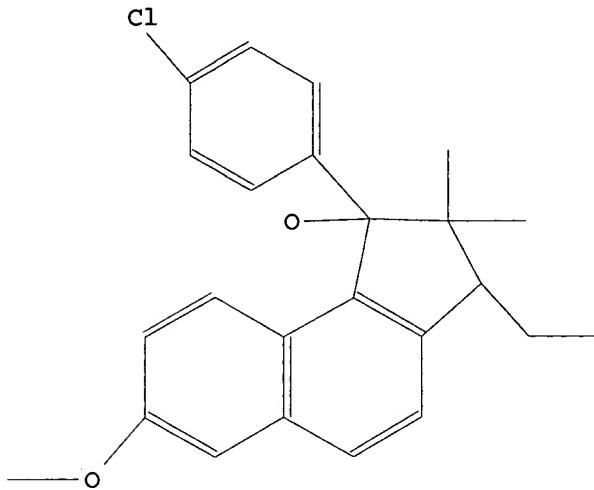
Beilstein Req. No. (BRN): 2482725 Beilstein

Molecular Formula (MF): C₂₄ H₂₅ Cl O₂

Autonom Name (AUN): 1-(4-chloro-phenyl)-3-ethyl-7-methoxy-2,2-dimethyl-2,3-dihydro-1H-cyclopenta<a>naphthalen-1-ol

Beilstein Reference (SO) : 5-06

CAS Reg. No. (RN) : 51062-89-6
 Beilstein Pref. RN (BPR) : 51062-89-6
 Formula Weight (FW) : 380.91
 Lawson Number (LN) : 6283; 289



Preparation:

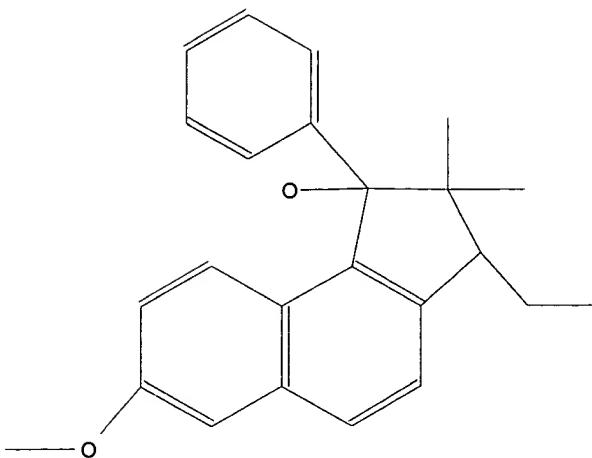
PRE

Reference(s) :

1. Patent: G. D. Searle + Co., US 3775486 1972
Chem. Abstr., 80, 47713

L21 ANSWER 6 OF 6 COPYRIGHT 1996 Beilstein

Beilstein Reg. No. (BRN) : 2478902 Beilstein
 Molecular Formula (MF) : C₂₄ H₂₆ O₂
 Autonom Name (AUN) : 3-ethyl-7-methoxy-2,2-dimethyl-1-phenyl-2,3-dihydro-1H-cyclopenta<a>naphthalen-1-ol
 Beilstein Reference (SO) : 5-06
 CAS Reg. No. (RN) : 51062-88-5
 Beilstein Pref. RN (BPR) : 51062-88-5
 Formula Weight (FW) : 346.47
 Lawson Number (LN) : 6282; 289



Preparation:

PRE

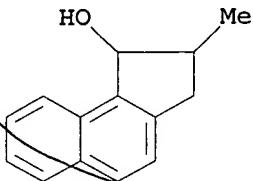
Reference(s):

1. Patent: G. D. Searle + Co., US 3775486 1972
Chem. Abstr., 80, 47713

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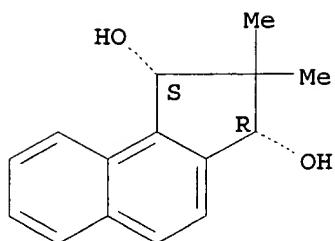
L18 ANSWER 1 OF 4 CAPLUS COPYRIGHT 1996 ACS
 AN 1995:610578 CAPLUS
 DN 123:257779
 TI Novel transition metal compounds and polymerization catalysts for olefins containing the transition metal compounds and manufacture of polyolefins
 IN Fujita, Terunori; Hirose, Takaharu; Saito, Junji; Ueda, Takashi; Kiso, Yoshihisa
 PA Mitsui Petrochemical Ind, Japan
 SO Jpn. Kokai Tokkyo Koho, 27 pp.
 CODEN: JKXXAF
 PI JP 06345809 A2 941220 Heisei
 AI JP 93-136254 930607
 DT Patent
 LA Japanese
 OS MARPAT 123:257779
 GI For diagram(s), see printed CA Issue.
 AB Catalysts contain transition metal metallocenes, org. aluminoxo compds. and/or compds. reacting with transition metal compds. to form ion pairs, and organoaluminum compds. Thus, zirconocene I was prep'd. and used in the polymn. of propylene with iso-Bu₃Al and methylaluminoxane.
 IT 163801-85-2P
 RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation)
 (manuf. and dehydration)
 RN 163801-85-2 CAPLUS

CN 1H-Benz[e]inden-1-ol, 2,3-dihydro-2-methyl- (9CI) (CA INDEX NAME)



L18 ANSWER 2 OF 4 CAPLUS COPYRIGHT 1996 ACS
 AN 1982:405939 CAPLUS
 DN 97:5939
 TI .sigma.-Naphthoquinodimethanes and .sigma.-phenanthroquinodimethanes. Isoindene-related species
 AU Dolbier, William R., Jr.; Dulcere, Jean Pierre; Sellers, Simon F.; Koroniak, Henryk; Shatkin, Blane T.; Clark, Thomas L.
 CS Dep. Chem., Univ. Florida, Gainesville, FL, 32611, USA
 SO J. Org. Chem. (1982), 47(12), 2298-303
 CODEN: JOCEAH; ISSN: 0022-3263
 DT Journal
 LA English
 OS CJACS
 AB Three isoindene-related naphthoquinodimethane and phenanthroquinodimethane species were synthesized and trapped with 4-phenyl-1,2,4-triazoline-3,5-dione. They are 2,2-dimethyl-2H-benz[e]indene (I), 2,2-dimethyl-2H-benz[f]indene and 2,2-dimethyl-9H-cyclopent[b]phenanthrene. I could be isolated and characterized by 1H NMR. The effect of solvent on Friedel-Crafts bisacylation of naphthalene and phenanthrene by dimethylmalonyl chloride is discussed. The use of the Vilsmeier reagent generated from PBr3/DMF is highly recommended as a general reagent for conversion of alcs. to alkyl bromides.
 IT 81278-62-8P 81278-63-9P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and conversion of, to dibromide)
 RN 81278-62-8 CAPLUS
 CN 1H-Benz[e]inden-1,3-diol, 2,3-dihydro-2,2-dimethyl-, cis- (9CI)
 (CA INDEX NAME)

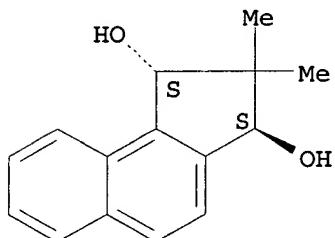
Relative stereochemistry.



RN 81278-63-9 CAPLUS

CN 1H-Benz[e]indene-1,3-diol, 2,3-dihydro-2,2-dimethyl-, trans- (9CI)
(CA INDEX NAME)

Relative stereochemistry.



L18 ANSWER 3 OF 4 CAPLUS COPYRIGHT 1996 ACS

AN 1974:47713 CAPLUS

DN 80:47713

TI 1,7-Dihydroxybenz[e]indanes

IN Chinn, Leland J.

PA Searle, G. D., and Co.

SO U.S., 2 pp.

CODEN: USXXAM

PI US 3775486 731127

AI US 72-258536 720601

DT Patent

LA English

GI For diagram(s), see printed CA Issue.

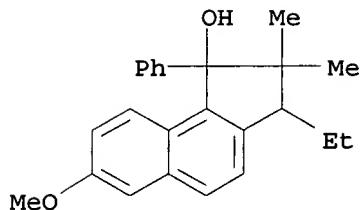
AB Benz[e]-indanols (I; R = OH; R1 = Ph, p-ClC6H4), useful as inflammation inhibitors, were prepd. by Grignard reaction of R1Br with I (RR1 = O) which was prepd. by cyclization of 3-(6-methoxy-2-naphthyl)-2,2-dimethylpentanoic acid with HF.

IT 51062-88-5P 51062-89-6P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

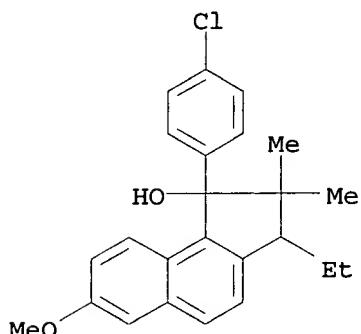
RN 51062-88-5 CAPLUS

CN 1H-Benz[e]inden-1-ol, 3-ethyl-2,3-dihydro-7-methoxy-2,2-dimethyl-1-phenyl- (9CI) (CA INDEX NAME)



RN 51062-89-6 CAPLUS

CN 1H-Benz[e]inden-1-ol, 1-(4-chlorophenyl)-3-ethyl-2,3-dihydro-7-methoxy-2,2-dimethyl- (9CI) (CA INDEX NAME)



L18 ANSWER 4 OF 4 CAPLUS COPYRIGHT 1996 ACS

AN 1969:68623 CAPLUS

DN 70:68623

TI Molecular structure and estrogen activity. XXVI. Synthesis of a seco-didehydrodoisynolic acid

AU Lematre, Jean; Horeau, Alain

CS College de France, Paris, Fr.

SO Bull. Soc. Chim. Fr. (1968), (12), 4953-8

CODEN: BSCFAS

DT Journal

LA French

AB 1-Ethyl-2,2-dimethyl-7-methoxy-1,2,3,4-tetrahydrophenanthren-4-one is oxidized to Me 2,2-dimethyl-3-(1-carboxy-6-methoxy-2-naphthyl)valerate which is converted to the diester, Et[6,1,2-MeO(PhCH₂SCO)C₁₀H₅]CHCMe₂CO₂Me. The diester is hydrogenated to the (1-hydroxymethyl-2-naphthyl)valeric acid which is hydrogenated to the title acid, .alpha.,.alpha.-dimethyl-.beta.-(6-methoxy-1-methyl-2-naphthyl)-valeric acid.

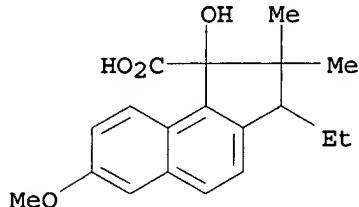
IT 21442-41-1P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 21442-41-1 CAPLUS

CN 16,17-Seco-C-norestra-1,3,5,7,9-pentaene-11-carboxylic acid,

11-hydroxy-3-methoxy- (8CI) (CA INDEX NAME)



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(FILE 'HOME' ENTERED AT 10:05:13 ON 27 SEP 96)

FILE 'REGISTRY' ENTERED AT 10:05:24 ON 27 SEP 96
L1 STRUCTURE uploaded

FILE 'CASREACT, CHEMINFORMRX, CHEMREACT, DJSMONLINE' ENTERED AT
10:07:21 ON 27 SEP 96

L2 0 FILE CASREACT
L3 0 FILE CHEMINFORMRX
L4 0 FILE CHEMREACT
L5 0 FILE DISMONLINE

TOTAL FOR ALL FILES

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L7 0 FILE CASREACT
L8 0 FILE CHEMINFORMRX
L9 0 FILE CHEMREACT
L10 0 FILE PJSMONLINE

TOTAL FOR ALL FILES

L11 O S L1

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L13 STRUCTURE uploaded
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L15 4 S L13
L16 0 S L12
L17 6 S L12 SSS FULL

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FILE 'BEILSTEIN' ENTERED AT 10:28:28 ON 27 SEP 96
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L20 O S L12
L21 6 S L12 FULL
L22 O S L21 NOT L17

FILE 'CAPLUS' ENTERED AT 10:43:27 ON 27 SEP 96

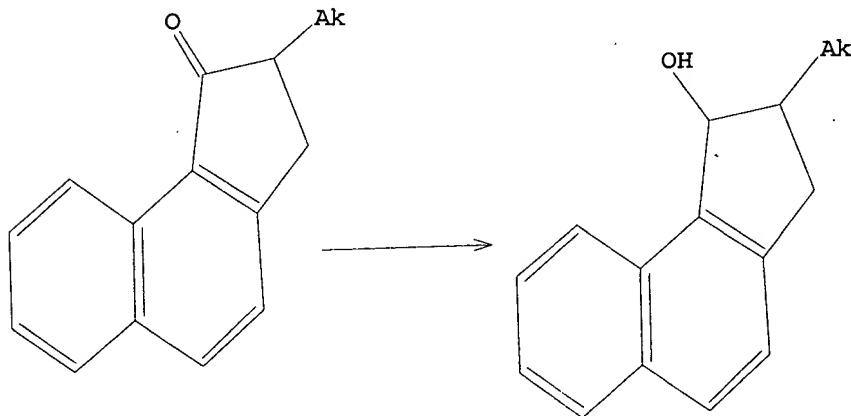
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Structure attributes must be viewed using STN Express query preparation.

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L23 ANSWER 1 OF 1 IFICDB COPYRIGHT 1996 IFI
 AN 0824256 IFIPAT;IFIUDB;IFICDB
 TI 1,7-DIHYDROXY BENZ(E) INDANES; ANTIINFLAMMATORY AGENTS
 IN CHINN L
 PA SEARLE, G D & CO (75400)
 PI US 3775486 731127 (CITED IN 001 LATER PATENTS)
 AI US 72-258536 720601
 FI US 3775486 731127
 DT UTILITY
 FS CHEMICAL
 OS CA 80:47713
 AB 1,7 - DIHYDROXYBENZE (E) INDANE DERIVATIVES HERIN DESCRIBED EXHIBIT
 ANTI-INFLAMMATORY ACTIVITY. THESE SUBSTANCES CAN BE PREPARED IN
 SEVERAL STEPS FROM (3- (6-HYDROXY-2-NAPHTHYL))-2,2-DIALKYLALKANOIC
 ACID DERIVATIVES.
 RN 106-39-8; 108-86-1; 517-18-0; 21442-42-2; 51062-88-5;
 51062-89-6